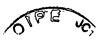


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			First Named Inventor	Peter K				
			Art Unit	3627	3627			
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Name (Print/Type)

Nathaniel T. Wallace



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

APPLICANT(S): Malkin et al.

DOCKET:

YOR920010313US1

(8728 - 508)

SERIAL NO.:

09/900,334

GROUP ART UNIT: 3627

FILED:

July 6, 2001

EXAMINER: Laneau, Ronald

FOR:

METHOD FOR DELIVERING INFORMATION BASED ON

RELATIVE SPATIAL POSITION

Mail Stop Appeal Brief-Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

APPEAL BRIEF

In response to the Final Office Action dated October 29, 2004 finally rejecting Claims 1-2 and 5-20 under 35 U.S.C. §102(e) and claims 3-4 under 35 U.S.C. 103(a), Applicant appeals pursuant to the Notice of Appeal filed on February 28, 2005 and submits this Appeal Brief.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

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Dated: May 2, 2005

Melithza Rodriguez

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1. Real Party in Interest

The real party in interest is International Business Machines Corporation, the assignee of the entire right, title, and interest in and to the subject application by virtue of an assignment of record.

2. Related Appeals and Interferences

None.

3. Status of Claims

Claims 1-20 are pending, stand rejected, and are under appeal.

A copy of the Claims as pending is presented in the Appendix.

4. Status of Amendments

Claims 1, 15 and 20 were amended by the Amendment Under 37

C.F.R. \$1.111 filed August 9, 2004. This Amendment was entered.

5. Summary of Claimed Subject Matter

The present invention relates to systems and methods for providing product information to a portable display device according to a position and orientation of the portable display device. The position and orientation of the portable display device is tracked within a local reference frame. Product information is provided to the portable display device according to the position and orientation of the portable display device within the local reference frame.

Referring to claim 1; a method is claimed for providing product information. The method includes establishing a local reference frame which defines a space including a product identifier and a portable display device as described, for example, at page 7, lines 19-20 and page 12, lines 17-20, and in Figures 1, element 1010 and Figure 8, element 8800. The method includes receiving a request for product information corresponding to the product identifier from the portable display device as described at, for example, page 9 line 20 to page 10 line 2, and in Figure 5 element 5030 and Figure 6 element 6030. The method further includes determining a position and an orientation of the portable display device in relation to the local reference frame, as described at, for example, paragraph page 12, lines 17-20, and Figure 6, element 6020. The method includes providing the product information via the

portable display device according to the position and orientation of the portable display device as described at, for example, page 10, lines 18-21 and page 13, lines 3-7, and in Figure 6, element 6050.

Referring to claim 15; a system is claimed for providing a user access to information. The system includes a portable display device within a local reference frame including an object, as described, for example, at page 7, lines 18-20, and in Figure 1, element 1050. The system claims a plurality of positional sensors, as described at page 12, lines 7-17 and page 13, lines 13-17, and in Figure 1, elements 2010-2060 and Figure 3, elements 3020-3040. The system further includes a correlation means for determining the object according to a known position of the object within the local reference frame, and a position and an orientation of the portable display device, as described at page 13, lines 1-8, and in Figure 5, element 5020. The system includes a database for providing, via the portable display device, information corresponding to the object, as described at, for example, page 10, lines 3-13, and in Figure 1, element 2090 and Figure 5, element 5040

Referring to claim 20; claim 20 includes substantially the limitations of claim 1. References to the specification therefore include the references given for claim 1. Claim 20 is

embodied in a program storage device readable by machine, for example, as described at page 9, lines 13-16, and Figure 4.

6. Grounds of Rejection to be Reviewed on Appeal

A. Claims 1, 15 and 20 stand rejected under 35 U.S.C.

102(e) as being anticipated by <u>Herrod</u> et al. (U.S. Patent No.
6,405,049).

7. Argument

A. The Claim Rejections Under 35 U.S.C. 102 Are Legally Deficient.

Under 35 U.S.C. §102, a claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. The identical invention must be shown in as complete detail as is contained in the claim. See MPEP §2131.

i. Claims 1, 15 and 20

It is respectfully submitted that at the very least, <u>Herrod</u> is legally deficient to establish a case of anticipation against independent Claims 1, 15 and 20.

Herrod teaches a terminal and access point for transmitting information concerning products available in the locality of the terminal for display (see col. 10, lines 36-44). Herrod does not teach or suggest a system for "providing the product

information via the portable display device according to the position and orientation of the portable display device" as claimed in claims 1 and 20, nor, "a correlation means for determining the object according to a known position of the object within the local reference frame, and a position and an orientation of the portable display device" as claimed in claim 15.

Herrod teaches that a first function may be performed by a device in a first orientation, and a second function may be performed by the device in a second orientation, i.e., activated in a first orientation and deactivated in a second orientation (see col. 17, lines 2-14). Nowhere does Herrod teach how the system for activating and deactivating a terminal could be used to provide product information or determine an object, much less determine product information or determine an object by position and orientation, essentially as claimed in claims 1 and 20 and claim 15, respectively. Herrod merely teaches a method for turning a terminal on and off according to whether the terminal is in a first orientation or in a second orientation. Nowhere does Herrod teach that a position of the device and an orientation of the device are used in any combined fashion, much less to determine product information. Thus, Herrod does not teach "providing the product information via the portable display device according to the position and orientation of the

portable display device" as claimed in claims 1 and 20, or "a correlation means for determining the object according to a known position of the object within the local reference frame, and a position and an orientation of the portable display device" as claimed in claim 15. Therefore, <u>Herrod</u> fails to teach all the limitations of claims 1 and 20, and 15.

Claims 2-14 depend from claim 1. Claims 16-19 depend from claim 15. The dependent claims are believed to be allowable for at least the reasons given for the respective independent claims.

Accordingly, the rejection of Claims 1-2 and 5-20, and the rejections of Claims 3 and 4 should be overruled.

CONCLUSION

The claimed invention is not disclosed or suggested by the teachings of the applied prior art references, either alone or in combination. Moreover, the Examiner has failed to establish a case of anticipation of the presently claimed method under 35 U.S.C. §102 over <u>Herrod</u> with respect to Claims 1, 15 and 20 for at least the reasons noted above. Accordingly, it is respectfully requested that the Board overrule the rejections of Claims 1-2 and 5-20 under 35 U.S.C. \$102 and dependent claims 3 and 4 under 35 U.S.C. §103.

Date: May 2, 2005

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8. CLAIMS APPENDIX

1. A method for providing product information comprising the steps of:

establishing a local reference frame which defines a space including a product identifier and a portable display device;

receiving a request for product information corresponding to the product identifier from the portable display device;

determining a position and an orientation of the portable display device in relation to the local reference frame; and

providing the product information via the portable display device according to the position and orientation of the portable display device.

- 2. The method of claim 1, further comprising the step receiving an order for a product corresponding to the product identifier from the portable display device.
- 3. The method of claim 1, further comprising the step of receiving a bid for a product corresponding to the product identifier from the portable display device.

- 4. The method of claim 1, further comprising the step of adding a product corresponding to the product identifier to a user shopping list using the portable display device.
- 5. The method of claim 1, further comprising the step of providing a menu for distinguishing a plurality of products in the space via the portable display device.
- 6. The method of claim 1, further comprising the step of redirecting a user toward an alternative product using the portable display device.
 - 7. The method of claim 1, further comprising the steps of: determining the orientation of the portable display device; and

selecting between the object and another proximate object on the basis of the orientation of the portable display device.

- 8. The method of claim 1, wherein the local reference frame is established using an active beacon.
- 9. The method of claim 8, further comprising the step of determining a position of the portable display device by comparing one of signal strengths of at least two beacons, a

signal transmission time from each of at least two beacons, and an angle between at least two beacons.

- 10. The method of claim 1, wherein the local reference frame is established using passive environmental markings.
- 11. The method of claim 10, further comprising the step of determining a position of the portable display device relative to at least one environmental marking.
- 12. The method of claim 10, further comprising the step of determining a position of the portable display device relative to an angle between at least two environmental markings.
- 13. The method of claim 1, further comprising the step of retrieving the product information from a database stored in the portable display device.
- 14. The method of claim 1, wherein the local reference frame is established relative to the portable display device and moves with the portable display device.
- 15. A system for providing a user access to information comprising:

- a portable display device within a local reference frame including an object;
 - a plurality of positional sensors;
- a correlation means for determining the object according to a known position of the object within the local reference frame, and a position and an orientation of the portable display device; and
- a database for providing, via the portable display device, information corresponding to the object.
- 16. The system of claim 15, further comprising a plurality of active beacons defining the local reference frame, wherein the positional sensors are part of the portable display device.
- 17. The system of claim 15, wherein the correlation means determines the position of the portable display device based on a signal strength of at least one active beacon, wherein the signal strength is determined by the positional sensors.
- 18. The system of claim 15, where the correlation means determines the position of the portable display device is based on a signal transmission times from each of at least two active beacons.

- 19. The system of claim 15, further comprising a wireless communication link between the portable display device and a database of product information.
- 20. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for providing product information, the method steps comprising:

establishing a local reference frame which defines a space including a product identifier and a portable display device;

receiving a request for product information corresponding to the product identifier from the portable display device;

determining a position and an orientation of the portable display device in relation to the local reference frame; and

providing the product information via the portable display device according to the position and an orientation of the portable display device.